



Picasso Lighting

IES INDOOR REPORT

PHOTOMETRIC FILENAME : BLD-4-PD-4-D3-I5-30-80-FW-W.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 13313159.01
[TESTLAB] UL Verification Services Inc.
[ISSUE DATE] 11/13/2023JS
[MANUFAC] Picasso Lighting Industries
[LUMCAT] BLD-4-PD-4-D3-I5-30-80-FW-W
[LUMINAIRE] Formed White aluminum housing, plastic lens enclosures
[LAMP] 96 White LEDs down, 96 White LEDs up
[BALLAST] Two ERP PSB50W-1200-42-S Driver
[OTHER] 24.4 C, 119.989 V, 0.476329 A, 40.44 W, 0.974777 PF, 59.9705
[MORE] Hz
[OTHER] This test was performed using the calibrated photodetector met
[MORE] hod of absolute photometry.

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3500
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	87
Total Luminaire Watts	40.44
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.13 ft
Luminous Height	0.33 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8316	3373	2836
55	7798	2674	2242
65	7004	2014	1701
75	5823	1385	1201
85	4345	876	810

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	444.26	444.26	444.26	444.26	444.26
2.5	441.65	442.53	444.59	445.61	445.36
5.0	439.04	440.79	444.93	446.98	446.49
7.5	436.43	439.05	445.26	448.33	447.60
10.0	433.82	437.32	445.61	449.69	448.70
12.5	428.11	433.34	440.99	445.06	444.18
15.0	422.39	429.34	436.38	440.43	439.65
17.5	416.67	425.36	431.78	435.81	435.13
20.0	410.95	421.36	427.17	431.18	430.60
22.5	401.32	412.41	419.05	424.16	424.31
25.0	391.68	403.46	410.92	417.14	418.03
27.5	382.05	394.50	402.81	410.12	411.75
30.0	372.41	385.55	394.69	403.09	405.46
32.5	360.56	373.34	384.15	392.96	395.70
35.0	348.70	361.12	373.61	382.83	385.95
37.5	336.86	348.89	363.08	372.70	376.20
40.0	325.00	336.67	352.54	362.58	366.44
42.5	310.59	322.54	339.41	350.04	354.02
45.0	296.18	308.39	326.28	337.51	341.60
47.5	281.76	294.23	313.14	324.97	329.18
50.0	267.36	280.10	300.00	312.45	316.76
52.5	250.01	263.90	284.60	297.37	302.04
55.0	232.69	247.67	269.20	282.29	287.33
57.5	215.35	231.45	253.82	267.20	272.61
60.0	198.01	215.24	238.43	252.12	257.89
62.5	180.10	197.72	221.42	235.65	241.15
65.0	162.19	180.21	204.41	219.16	224.42
67.5	144.26	162.69	187.40	202.68	207.68
70.0	126.35	145.18	170.39	186.20	190.95
72.5	109.10	128.30	153.95	169.85	174.55
75.0	91.84	111.42	137.51	153.52	158.16
77.5	74.60	94.54	121.08	137.19	141.75
80.0	57.34	77.66	104.65	120.84	125.35
82.5	45.85	66.45	93.50	109.64	114.30
85.0	34.36	55.26	82.36	98.45	103.26
87.5	22.85	44.05	71.20	87.23	92.21
90.0	11.36	32.85	60.06	76.04	81.16
92.5	18.38	35.75	64.06	82.00	87.19
95.0	26.65	36.93	62.64	79.80	84.78
97.5	38.98	37.88	62.52	78.07	82.92
100.0	53.91	44.05	62.40	78.13	82.39
102.5	71.83	71.24	62.44	79.87	84.15
105.0	89.75	119.49	64.63	79.92	84.50
107.5	107.80	175.47	77.18	79.15	83.30
110.0	125.50	205.39	111.73	81.71	83.51
112.5	143.26	227.75	183.45	92.92	87.87
115.0	160.07	247.72	286.82	123.62	101.98
117.5	176.89	265.54	416.95	200.27	142.39
120.0	193.47	281.58	502.12	316.28	227.75
122.5	209.94	296.59	546.00	480.21	356.43
125.0	226.17	310.18	567.16	656.63	536.24
127.5	241.93	322.92	580.22	755.36	719.16
130.0	257.08	335.20	589.36	799.86	821.54
132.5	271.72	346.86	595.02	814.98	863.52

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CANDELA TABULATION - (Cont.)

135.0	285.99	357.71	596.75	818.44	877.78
137.5	299.91	367.60	594.09	814.62	879.67
140.0	313.12	376.78	587.62	803.34	871.33
142.5	326.08	385.41	577.66	783.93	853.43
145.0	338.21	393.10	566.17	757.27	826.39
147.5	350.11	399.82	553.24	725.50	791.24
150.0	360.69	405.00	539.36	690.98	750.88
152.5	370.44	409.60	524.96	655.61	708.13
155.0	379.12	412.90	510.33	620.74	665.16
157.5	387.21	415.59	495.45	586.31	622.88
160.0	394.11	416.97	480.94	553.56	582.73
162.5	400.18	418.15	468.15	524.68	546.66
165.0	405.30	418.64	456.68	498.29	513.90
167.5	409.70	418.63	446.28	475.35	485.53
170.0	413.40	418.63	437.06	455.85	461.70
172.5	416.49	418.63	429.68	441.10	443.97
175.0	418.50	418.50	423.98	430.76	430.77
177.5	419.81	418.38	421.00	424.45	423.14
180.0	419.62	419.62	419.62	419.62	419.62

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	165.20	N.A.	4.70
0-30	354.12	N.A.	10.10
0-40	586.79	N.A.	16.80
0-60	1073.21	N.A.	30.70
0-80	1409.83	N.A.	40.30
0-90	1492.92	N.A.	42.70
10-90	1450.56	N.A.	41.40
20-40	421.59	N.A.	12.00
20-50	670.99	N.A.	19.20
40-70	683.79	N.A.	19.50
60-80	336.61	N.A.	9.60
70-80	139.24	N.A.	4.00
80-90	83.09	N.A.	2.40
90-110	159.80	N.A.	4.60
90-120	366.83	N.A.	10.50
90-130	782.29	N.A.	22.40
90-150	1595.15	N.A.	45.60
90-180	2006.9	N.A.	57.30
110-180	1847.1	N.A.	52.80
0-180	3499.82	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	42.36
10-20	122.84
20-30	188.92
30-40	232.67
40-50	249.40
50-60	237.02
60-70	197.37
70-80	139.24
80-90	83.09
90-100	64.30
100-110	95.49
110-120	207.03
120-130	415.46
130-140	452.68
140-150	360.18
150-160	239.91
160-170	130.91
170-180	40.93

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	105	105	105	105	96	96	96	96	79	79	79	64	64	64	49	49	49	43
1	95	90	86	82	87	83	79	76	68	65	63	55	53	51	42	41	40	34
2	86	78	72	67	78	72	66	61	59	55	51	47	44	42	36	34	33	28
3	78	69	61	55	71	63	56	51	52	47	43	41	38	35	32	29	27	23
4	71	60	52	46	65	55	48	43	46	40	36	37	33	30	28	26	23	19
5	65	54	45	39	59	49	42	36	41	35	31	33	29	25	25	22	20	17
6	60	48	40	34	55	44	37	31	36	31	27	29	25	22	23	20	17	14
7	56	43	35	29	50	40	32	27	33	27	23	27	22	19	21	18	15	13
8	51	39	31	26	47	36	29	24	30	24	21	24	20	17	19	16	14	11
9	48	35	28	23	44	33	26	21	27	22	18	22	18	15	18	15	12	10
10	45	32	25	20	41	30	23	19	25	20	16	21	17	14	16	13	11	9

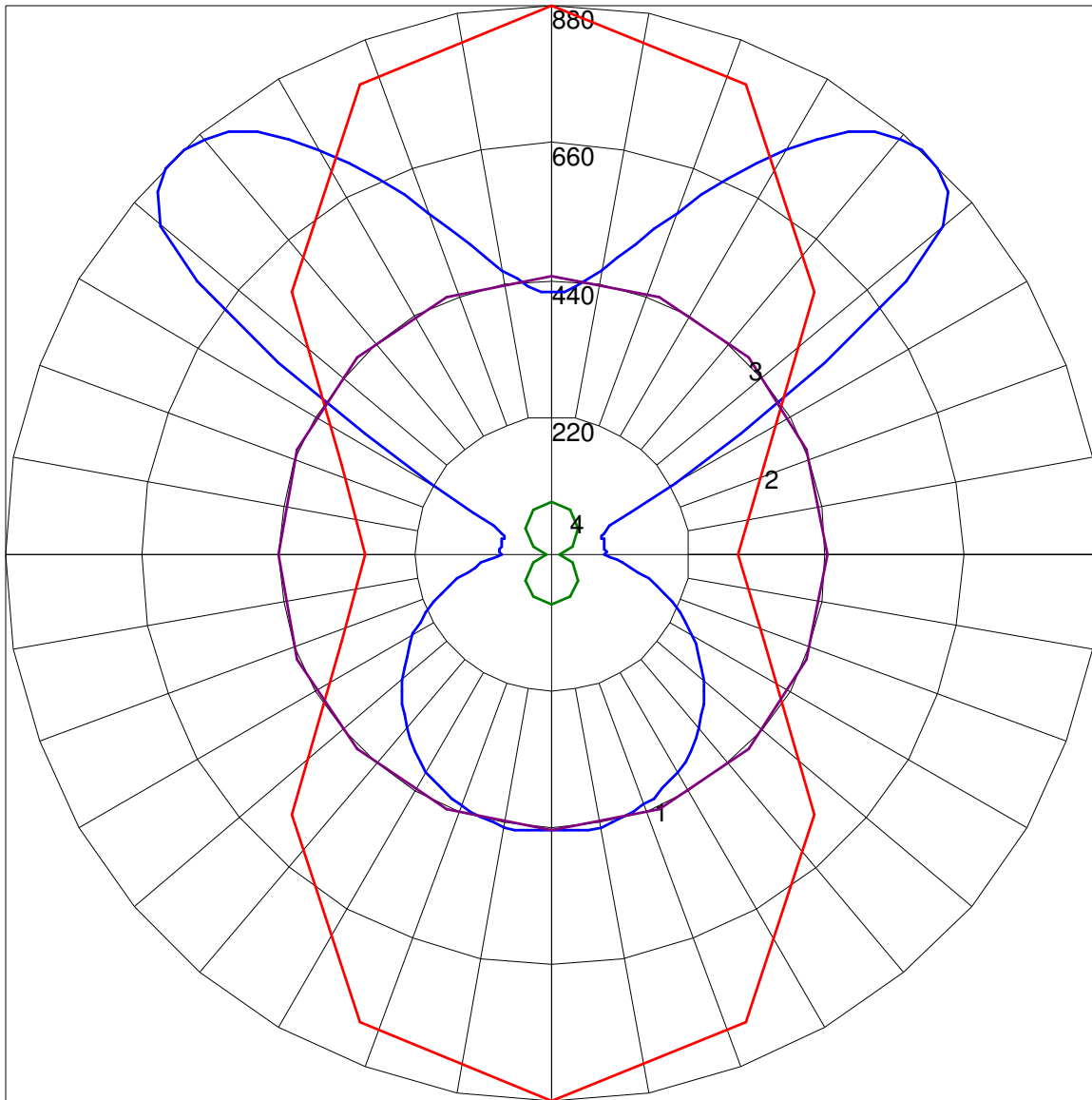
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UGR TABLE - CORRECTED

Reflectances											
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30	
Walls	50	30	50	30	30	50	30	50	30	30	
Floor Cavity	20	20	20	20	20	20	20	20	20	20	
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	9.5	10.3	10.5	11.4	12.7	13.1	13.9	14.1	15.0	16.3
	3H	10.8	11.5	11.8	12.5	13.9	15.4	16.1	16.4	17.2	18.5
	4H	11.2	11.9	12.2	12.9	14.3	16.4	17.1	17.4	18.1	19.5
	6H	11.4	12.0	12.4	13.1	14.5	17.4	18.0	18.4	19.1	20.5
	8H	11.4	12.0	12.5	13.1	14.5	17.9	18.5	18.9	19.6	21.0
	12H	11.4	12.0	12.5	13.1	14.5	18.4	19.0	19.5	20.0	21.5
4H	2H	10.3	11.0	11.4	12.1	13.5	13.3	14.0	14.3	15.0	16.4
	3H	11.8	12.4	12.8	13.5	14.9	15.7	16.3	16.7	17.3	18.7
	4H	12.3	12.9	13.3	13.9	15.3	16.8	17.4	17.9	18.4	19.8
	6H	12.6	13.1	13.7	14.2	15.6	17.9	18.4	19.0	19.5	20.9
	8H	12.7	13.1	13.7	14.2	15.6	18.5	18.9	19.5	20.0	21.4
	12H	12.7	13.1	13.8	14.2	15.7	19.1	19.5	20.1	20.6	22.0
8H	4H	12.8	13.3	13.9	14.3	15.8	16.8	17.3	17.9	18.3	19.8
	6H	13.3	13.6	14.3	14.7	16.2	18.0	18.4	19.1	19.5	21.0
	8H	13.4	13.8	14.5	14.8	16.3	18.7	19.0	19.8	20.1	21.6
	12H	13.5	13.8	14.6	14.9	16.4	19.4	19.7	20.5	20.8	22.3
12H	4H	12.9	13.3	14.0	14.4	15.8	16.8	17.2	17.9	18.3	19.7
	6H	13.4	13.8	14.5	14.9	16.3	18.0	18.3	19.1	19.4	20.9
	8H	13.6	13.9	14.7	15.0	16.5	18.7	19.0	19.8	20.1	21.6

Maximum UGR = 22.3

POLAR GRAPH



Maximum Candela = 879.67 Located At Horizontal Angle = 90, Vertical Angle = 137.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (137.5) (Through Max. Cd.)
3 - Horizontal Cone Through Vertical Angle (2)
4 - Horizontal Cone Through Vertical Angle (90)